

General Conclusions Based on Reports Reviewed

- Conveyance system operations are critical
- None of the options stood out as clear choice to fully meet all performance standards
- Few reports included operation or ecosystem information
- Cost estimates not current or comprehensive

Water Supply Reliability

- New options for conveyance could improve water supply reliability
- Water supply reliability has decreased in recent years
- No up-to-date references for water supply reliability for Delta conveyance options

Seismic and Flood Durability

- DRMS is best up-to-date source for seismic and flood risk
- Risk level due to earthquake and flood not universally accepted
- Seismically resistant/repairable levee standards are not universally accepted

Ecosystem Health and Resilience

- Physical habitat
 - Dual conveyance allows for most potential flexibility
 - Thru Delta has least flexibility
- Ecological processes
 - Most conveyance options allow flexibility
- Stressors
 - For entrainment, fish screen design is important
 - Isolated facilities allow for more efficient fish screen design
 - Reduction of invasive species impacts difficult to determine

Water Quality

- Ecosystem WQ \neq Drinking WQ
- Dual Conveyance and Isolated Facility
 - improve export WQ (drinking and ag)
 - problems for Delta eco (toxics) and ag from San Joaquin River
- Additional source control needed
- Careful monitoring needed
- Information gaps
 - operating criteria
 - effects of sea level rise

Cost and Schedule

- Estimating project costs is not exact science
- Conveyance options estimates do not go beyond conceptual stage
- Estimates are for construction only
- Results from existing reports are not comparable

Recommendations

1. Ecosystem health and resilience should be design and operation component
2. Surface and groundwater management should be part of conveyance studies

Recommendations

3. Monitoring, assessment and reporting program should be part of conveyance studies
4. Climate change and sea level rise effects on human health and infrastructure should be part of conveyance studies